

Portege Z935 Detailed Product Specification¹

Model Name: Z935-ST3N01	Part Number: PT234U-02N01X	UPC: 022265305522
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Operating System ^{C1 2}

- Windows 8

Processor³ and Graphics⁴

- Intel® Core™ i3-3217U Processor
 - (3MB Cache, 1.8 GHz)
- Mobile Intel® HM76 Express Chipset
- Mobile Intel® HD Graphics with 64MB-1696MB dynamically allocated shared graphics memory

Memory⁵

- Configured with 6GB(2GB+4GB) DDR3 1600MHz (max 6GB)
- 1 main memory slot. Slot occupied. (not user upgradable)

Storage Drive⁶

- 128GB Serial ATA solid state drive

Fixed Optical Disk Drive⁷

- Not Available

Display⁸

- 13.3" diagonal widescreen TruBrite® TFT display at 1366 x 768 native resolution (HD)
 - Native support for 720p content
 - 16:9 aspect ratio
 - LED backlit
- Intel® Wireless Display Ready⁹ (requires display adapter to work, sold separately)

Sound

- Built-in stereo speakers
- SRS Premium Sound 3D™

Input Devices

- Premium Spill-resistant Raised Tile Backlit Keyboard (black)
- Touch pad pointing device with multi-touch control
- Buttons
 - Eco
 - Presentation
 - Touch pad On/Off

Communications

- Webcam and microphone
- 10/100/1000 Ethernet
- Intel® 802.11 b/g/n wireless LAN¹⁰
- Bluetooth® version 4.0

Expandability

- Memory Card Reader
 - Secure Digital, Secure Digital High Capacity, Mini SD Card, Micro SD, Micro SDHC [shared slot may require adapter for use]

Ports

- Video
 - RGB
 - HDMI®
- Audio
 - Microphone input port
 - Headphone output port
- Data
 - 3 USB ports (1 USB 3.0¹¹ port + 2 USB 2.0 ports (1 with USB Sleep and Charge¹²))
 - RJ-45 LAN port
- Security
 - Slot for security lock

Physical Description

- Magnesium Alloy Casing in Silver
 - Honeycomb Rib Structure Reinforcement
- Dimensions (W x D x H Front/H Rear): 12.44" x 8.94" x 0.33"/0.63" with feet

- Weight: Starting at 2.47 lbs. depending upon configuration¹³

Power

- 45W (19V 2.37A) 100-240V/50-60Hz AC Adapter
- Dimensions (W x H x D): 3.7" x 1.7" x 1.1"
- Weight: starting at 0.40 lb.

Battery

- 8 cell/47Wh Lithium Ion battery pack (not user replaceable)

Software ^{C1 14}

- Toshiba Software and Utilities
 - TOSHIBA Disc Creator
 - TOSHIBA eco Utility™
 - TOSHIBA HDD Protection
 - TOSHIBA HW Setup Utility
 - TOSHIBA Media Player by sMedio Truelink+
 - TOSHIBA PC Health Monitor
 - TOSHIBA Recovery Disc Creator
 - TOSHIBA Service Station
 - TOSHIBA Sleep Utility
 - TOSHIBA Supervisor Password Utility
 - TOSHIBA Resolution+ Upconvert Technology for Media Player¹⁵
 - TOSHIBA Video Player
- Third-party Software
 - Internet Explorer® 10
 - Intel® Wireless Display 3.0¹⁶
 - Microsoft® Windows™ Essentials 2012
 - Photo Gallery
 - Movie Maker
 - Skydrive desktop
 - Norton™ Laptop Checkup
 - Origin powered by EA Game Console
 - WildTangent® Games Console
 - SRS Premium Sound 3D™
- Special Offers and Trial Software
 - Microsoft® Office (Trial)
 - Norton™ Anti-Virus 2013 (30-day subscription)
 - Norton™ Online Backup (30-day Trial)
 - Norton™ Anti-Theft™ (60-day Trial)

1 YEAR STANDARD LIMITED WARRANTY¹⁷

Environmental Specifications

- This product is RoHS¹⁸ compatible
- ENERGY STAR® Qualified
- EPEAT™ Gold Rated

	Operating	Non-operating
Temperature ¹⁹	5° to 35° C	-20° to 65° C
Thermal Gradient	15° C per hour (max)	20° C per hour
Relative Humidity (non-condensing)	20% to 80%	10% to 90%
Altitude (relative to sea level)	-60 to 3,000 meters	-60 to 10,000 meters
Shock	10G	60G
Vibration	0.5G	1.0G

.Service Upgrades and Extensions

Toshiba offers many different enhanced services such as SystemGuard®, On-Site Repair, and ServiceExpress to provide additional support to your notebook PC. For a full description and complete list of programs and program terms and conditions, please visit www.support.toshiba.com.

Accessories

For additional and most updated accessories, please visit www.accessories.toshiba.com

Power

Part Number	Description
PA3822U-1ACA	Toshiba 45W Global AC Adapter

Expansion

Part Number	Description
PA3834U-1DV2	Toshiba USB Portable DVD SuperMulti Drive (Tray Load)
PA3845U-1DV2	Toshiba USB Portable DVD SuperMulti Drive (Slot Load)
PA5082U-1PRP	dynadock V3.0 Universal USB Docking Station
PA3927U-1PRP	dynadock U3.0 Universal USB Docking Station
PA3686U-1SET	Toshiba dynadock Wireless U Universal Docking Station with USB Adapter

Carrying Case

Part Number	Description
PA1454U-1SN2	Toshiba Neoprene Case, Black (Fits up to 13.3" Ultralight)
PA1444U-1CS2	Toshiba Envoy Ballistic Polyester Carrying Case (Fits up to 13.3" Ultralight)

PA1459U-1CL2	Toshiba Envoy Leather Carrying Case (Fits up to 13.3" Ultralight)
PA1503U-1SL3	Toshiba Envoy Extreme Sling Back Pack, Black & Blue (Fits up to 14.1")

Bluetooth

Part Number	Description
PA3847U-1ETB	Toshiba Bluetooth Laser Mouse, Gloss Black
PA3847U-1ETC	Toshiba Bluetooth Laser Mouse, Magnesium Black

Storage

Part Number	Description
PA3879U-1M4S	Toshiba 4GB Micro Swivel USB Flash Drive
PA3879U-1M8S	Toshiba 8GB Micro Swivel USB Flash Drive
PA3879U-1MAS	Toshiba 16GB Micro Swivel USB Flash Drive
HDTC607XK3A1	Toshiba Canvio USB 3.0 750GB Portable Hard Drive, Black
HDTC610XK3B1	Toshiba Canvio USB 3.0 1TB Portable Hard Drive, Black
HDTC615XK3B1	Toshiba Canvio USB 3.0 1.5TB Portable Hard Drive, Black

Subject to Change

While Toshiba has made every effort at the time of publication to ensure the accuracy of the information provided herein, product specifications, configurations, prices, system/component/options availability are all subject to change without notice. For the most up-to-date product information about your computer, or to stay current with the various computer software or hardware options, visit Toshiba's Web site at <http://www.support.toshiba.com>

Return Policy

Notwithstanding anything to the contrary in any third party License Agreement or product documentation supplied with your PC, Toshiba America Information Systems, Inc. ("TAIS") does not accept the return of component parts, or bundled software, that have been removed from the PC system. Pro-rata refunds on individual PC components or bundled software, including the operating system, will not be granted. If you wish to return a complete PC system, contact the TAIS dealer where you purchased the product, and comply with the dealer's standard return policies and procedures.

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^{C1} **64-bit computing:**

64-bit computing requires that the following hardware and software requirements are met:

- 64-bit Operating System
- 64-bit CPU, Chipset and BIOS (Basic Input/Output System)
- 64-bit Device drivers
- 64-bit applications

Certain device drivers and/or applications may not be compatible with a 64-bit CPU and therefore may not function properly. See "Detailed Specs" for more information.

¹ **Product Series Legal Footnote.** The product specifications and configuration information are designed for a product Series. Your particular model may not have all the features and specifications listed or illustrated. For more detailed information about the features and specifications on your particular model, please visit Toshiba's Web site at pcsupport.toshiba.com.

Product Offering Legal Footnote. Toshiba America Information Systems, Inc. reserves the right to modify or withdraw this offer at anytime without notice

² **Operating System.**

Also see **64-Bit Computing** Legal Footnote, if applicable.

Certain Microsoft® software product(s) included with this computer may use technological measures for copy protection. IN SUCH EVENT, YOU WILL NOT BE ABLE TO USE THE PRODUCT IF YOU DO NOT FULLY COMPLY WITH THE PRODUCT ACTIVATION PROCEDURES. Product activation procedures and Microsoft's privacy policy will be detailed during initial launch of the product, or upon certain reinstallations of the software product(s) or reconfigurations of the computer, and may be completed by Internet or telephone (toll charges may apply).

Some software may differ from its retail version (if available), and may not include user manuals or all program functionality.

Offers. Offer terms, duration and product availability all subject to change without notice

³ **Processor (Central Processing Unit).** Also see **64-Bit Computing** Legal Footnote, if applicable.

CPU performance in your computer product may vary from specifications under the following conditions:

1. use of certain external peripheral products
2. use of battery power instead of AC power
3. use of certain multimedia, computer generated graphics or video applications
4. use of standard telephone lines or low speed network connections
5. use of complex modeling software, such as high end computer aided design applications
6. use of several applications or functionalities simultaneously
7. use of computer in areas with low air pressure (high altitude >1,000 meters or >3,280 feet above sea level)
8. use of computer at temperatures outside the range of 5°C to 30°C (41°F to 86°F) or >25°C (77°F) at high altitude (all temperature references are approximate and may vary depending on the specific computer model – please visit the Toshiba website at www.pcsupport.toshiba.com for details).

CPU performance may also vary from specifications due to design configuration.

Under some conditions, your computer product may automatically shut-down. This is a normal protective feature designed to reduce the risk of lost data or damage to the product when used outside recommended conditions. To avoid risk of lost data, always make back-up copies of data by periodically storing it on an external storage medium. Use your computer product only under recommended conditions. Read additional restrictions under “Environmental Conditions” in your product “Detailed Specs.” Contact Toshiba Technical Service and Support for more information.

⁴ **Graphics (Graphics Processing Unit).** GPU performance may vary depending on product model, design configuration, applications, power management settings and features utilized. GPU performance is only optimized when operating in AC power mode and may decrease considerably when operating in battery power mode.

Total Available Graphics Memory is the total of, as applicable, Dedicated Video Memory, System Video Memory and Shared System Memory. Shared System Memory will vary depending on system memory size and other factors.

⁵ **Memory (Main System).** Part of the main system memory may be used by the graphics system for graphics performance and therefore reduce the amount of main system memory available for other computing activities. The amount of main system memory allocated to support graphics may vary depending on the graphics system, applications utilized, system memory size and other factors. Computers configured with a 32-bit operating system can address up to 3GB of system memory. Only computers configured with a 64-bit operating system can address 4 GB or more of system memory.

⁶ **Storage Drive**

Computer (Internal) HDD Capacity. One Gigabyte (GB) means $10^9 = 1,000,000,000$ bytes using powers of 10. The computer operating system, however, reports storage capacity using powers of 2 for the definition of $1\text{ GB} = 2^{30} = 1,073,741,824$ bytes, and therefore shows less storage capacity. Available storage capacity will also be less if the computer includes one or more pre-installed operating systems, such as Microsoft Operating System and/or pre-installed software applications, or media content. Actual formatted capacity may vary.

⁷ **Optical Drive.** Due to manufacturing and quality variations in third party optical media (e.g., CD or DVD) or optical media players/recorders, in certain cases, your Toshiba optical drive may not record on certain optical media that bear the applicable logo, or playback optical media recorded by other PCs or optical media recorders. Additionally, certain optical media recorded on your optical drive may not playback or operate properly on other PCs or optical media players. These problems are not due to any defect in your Toshiba PC or optical drive. Please refer to your PC's product specification for listing of specific format compatibilities.

Recording or viewing of certain optical media may be limited or prevented in accordance with applicable copy protection standards.

⁸ **Display.** Small bright dots may appear on your screen display when you turn on your PC. Your display contains an extremely large number of thin-film transistors (TFT) and is manufactured using high-precision technology. Any small bright dots that may appear on your display are an intrinsic characteristic of the TFT manufacturing technology. Over a period of time, and depending on the usage of the computer, the brightness of the screen will deteriorate. This is also an intrinsic characteristic of the screen technology. When the computer is operated on battery power, the screen will dim and you may not be able to increase the brightness of the screen while on battery power.

⁹ **Intel® Wireless Display.** Copy protection technology, if any, associated with the content may prevent or limit viewing of content.

¹⁰ **Wireless.** May require purchase of additional software, external hardware, or services. Transmission speeds may vary. Certain optional features within the wireless-n specifications (if available on your system) may not be supported

¹¹ **USB 3.0.** 5Gbps is the maximum theoretical interface transfer rate per the specifications of the Universal Serial Bus 3.0. Actual transfer rate will vary depending on your system configuration and other factors.

¹² **USB Sleep & Charge.** The "USB Sleep & Charge function" may not work with certain external devices even if they are compliant with the USB specification. In those cases, turn the power of the computer ON to charge the device.

¹³ **Weight.** Weight may vary depending on product configuration, vendor components, manufacturing variability and options selected.

¹⁴ **Software.** Also see 64-Bit Computing Legal Footnote, if applicable.

Some software may differ from its retail version (if available), and may not include user manuals or all program functionality.

Certain Microsoft® software product(s) included with this computer may use technological measures for copy protection. IN SUCH EVENT, YOU WILL NOT BE ABLE TO USE THE PRODUCT IF YOU DO NOT FULLY COMPLY WITH THE PRODUCT ACTIVATION PROCEDURES. Product activation procedures and Microsoft's privacy policy will be detailed during initial launch of the product, or upon certain reinstallations of the software product(s) or reconfigurations of the computer, and may be completed by Internet or telephone (toll charges may apply).

Includes Microsoft® Office 2010 preloaded. Purchase a Product Key to activate a full Microsoft Office 2010 suite.

¹⁵ **Upconverter/UpconversionTechnology (Resolution+® Technology).** Viewing enhancements may vary depending upon content quality and display device capability/functionality/settings. Depending on the quality of the content, some video noise may be visible.

¹⁶ **Intel® Wireless Display. Copy protection technology, if any, associated with the content may prevent or limit viewing of content.**

¹⁷ **Warranty.** The terms and conditions of Toshiba's standard limited warranty are available at www.warranty.toshiba.com.

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¹⁸ **RoHS.** This notebook is compatible with European Union Directive 2002/95/EC, Restriction of the use of certain Hazardous Substances in electrical and electronic equipment (RoHS), which restricts use of lead, cadmium, mercury, hexavalent chromium, PBB, and PBDE. Toshiba requires its notebook component suppliers to meet RoHS requirements and verifies its suppliers' commitment to meeting RoHS requirements by conducting component sampling inspections during the product design approval process.

¹⁹ **Temperature (Environmental) Conditions.** All temperature references are approximate and the performance of your computer may vary from specifications even when operating within the recommended temperature range.